

# INDEX

**a<sub>w</sub>**, definition, 3

## Access

- allowed after due notice, 177
- application for inspection order, 177
- notification of right, 177
- owner agreement, 170-172, 177
- refusal, 177

Accuracy, 83

Acidity. *See pH*, 11

## Additives, food and color

- definition, 2
- food upon receipt, 40
- limitations, 69, 159
- sulfites, 48
- unapproved, protection from, 48

Administrative action, 185

## Adulterated

- definition, 2
- food condition, 35

## Air-drying

- equipment and utensils, 114-115
- wiping cloths, locations, 115

Air filtration, 129

Air gap. *See Backflow Prevention, Plumbing System*

Air temperature, 62, 87-88

*See also Ambient temperature measuring devices*

Aisles in work spaces. *See Spacing*

Alkalinity. *See pH*

Alligator. *See Fish*

Ambient temperature measuring devices, 84

## Animal foods, raw

- consumer self-service, limitations, 54
- cooking requirements, 55-58
- separation from other foods, 46-47

Animal foods, raw or undercooked, consumer advisory, 74 (Reserved)

## Animals

- commercially raised for food, 38-39, 55-56
- exotic species, limitations as food source, 39
- game, 38-39, 55-56
- handling by employees, prohibition and exception, 34
- handwashing after handling, 30
- live, prohibition and exceptions, 153-154
- wild, 39, 54

Anti-slip floor coverings, 140

## Appeal

- restriction or exclusion order, 183
- denial of application for operating permit, 173

Applicant for permit to operate food establishment

- information required, 169-172
- qualifications, 170

Applicant, responsibility to report illness, 174

## Application for operating permit

- notice of denial, 173
- procedure, 169-172

## Application of Code

- prevention of health hazards, 164
- public health protection, 163-164

Approved, definition, 3

## Area

- adjacent to easily movable equipment, 5
- behind vending machine kickplates, 83
- consumer eating and drinking, 114, 142, 154, 155
- consumer shopping, 97, 135, 142, 154
- designated for eating, drinking, and tobacco use, 33, 149
- dining, 117, 154
- distressed merchandise, 150
- dressing, 148, 152
- driving, 140, 145
- dry storage, 142
- employee restriction, 182
- exposed, 142
- food preparation, 142-143, 153-154
- handwashing lavatory, 124-125, 141
- indoor, construction material, 139-140
- light intensity by, 148
- living, 146
- outdoor, construction materials, 140
- outside fenced, 154
- poisonous or toxic materials, 156, 161
- prohibited food storage, 52-53
- protected, for tank vent, 128
- refuse, 135, 141, 145, 150
- registration, 8
- requiring drip-free ventilation, 84
- self-service, 23
- separate, for raw foods, 46-47
- servicing, 139, 145
- shellfish harvesting, 42-43
- sleeping, 146
- storage, 133-136, 150, 156
- underneath equipment for cleaning, 97
- underneath fingernails, cleaning, 29
- unaffected by imminent health hazard, 180
- vending machine, 17, 145
- walking, 140, 145
- warewashing, 141, 148, 156
- waste servicing, 132
- where persons must comply with Code, 22
- where unnecessary persons are not allowed, 22

Artificial color or flavor, declaration, 72-73

Asymptomatic carrier, 25-26

Attachments, wall and ceilings, cleanability, 142

Automatic shutoff, vending machines, 87-88

## Backflow prevention, plumbing system

- air gap, 123
- knowledge of person in charge, 19
- sewage systems, 131-132
- water system operation, 130

## Backflow prevention device, plumbing system

- carbonator, 123
- copper, use limitation, 79
- design standard, 123
- location, 125
- numbers and capacity, 125
- operation and maintenance, 126

# INDEX

- Backsiphonage. *See Backflow*
- Bacon, slab, storage, 47
- Bacteria. *See Disease outbreaks caused by*
- Baffles, internal, for warewashing machine, 89
- Bags. *See Single-service articles*
- Bait
  - fish, 154
  - station, 159
- Bakery products, 73
- Basket, for warewashing equipment, 90, 108
- Bearings and gear boxes, leakproof, 86
- Bed and Breakfast. *See food establishment definition*
- Beef
  - consumer self-service, 54
  - cooking requirement, 55-58
  - minimum holding times for cooking, 55-58
  - oven parameters for cooking, 56-58
  - rare or raw, consumer advisory, 74 (Reserved)
  - raw, storage, 46-47
  - use of clean equipment, 104-107
  - use of laundered gloves, 113
  - whole-muscle, intact, definition, 17
  - whole-muscle, intact steak, cooking, 57
- Beef roasts, cooking requirements, 56-57
- Beverage
  - containers, consumer-owned, refilling, 110-111
  - definition, 3
  - tubing, separation from stored ice, 86
  - vending machines, liquid waste disposal, 91
- Birds, dead or trapped, removal, 153
- Boil. *See Lesion, containing pus*
- Boiler water additives, criteria, 158
- Bottled drinking water, definition, 3
  - source, 120
- Botulism. *See Clostridium botulinum*
- Bowls. *See Hollowware*
- Bread wrappers. *See Single-use articles*
- Buffets, monitoring by food employees, 54
- Buildings. *See Physical facilities*
- Bulk food
  - dispensing methods, 54
  - display, protection, 53
  - labeling requirements, 72-73
  - liquid, vended, 91
  - raw animal food, prohibition, 54
  - unpackaged, labeling exemptions, 73
- Bulk milk container dispensing tube, 104
- Cabinets
  - storage, 96, 116, 129, 154
  - vending machine, 91-92
- Calibration, temperature measuring devices, 103
- Can openers
  - design and construction, 83
  - maintenance and operation, 98
  - on vending machines, design and construction, 87
- Cans, number 10. *See Single-use articles*
- Carbonator, 125
- Cardboard for recycling, outside storage, 136
- Carpeting, floor, restrictions and installation, 141
- Carrier, disease. *See Asymptomatic carrier*
- Carry-out utensils. *See Single-service articles*
- Case lot handling equipment, moveability, 91
- Cast iron utensils and equipment food-contact surfaces, use limitation, 78
- Catering operation. *See Food establishment*
- Catsup bottles. *See Single-use articles*
- Ceilings, ceiling coverings, and coatings, cleanability, 140-142
- Ceramic utensils, lead limitation, 78
- Certification number, definition, 3
- CFR, definition, 3
- Chemicals
  - preservatives, declaration, 72
  - sanitization of equipment food-contact surfaces and utensils, 111-112
  - sanitizers, criteria, 158
  - washing fruits and vegetables, criteria, 158
  - working containers of, 155
- Chicken, raw, immersion in ice or water, 49
- China utensils, lead limitation, 78
- Chlorine solutions, chemical sanitization, 101-103
- CIP
  - definition, 3
  - equipment, design and construction, 81
- Clams, lightly cooked or raw, consumer advisory, 58, 74 (Reserved)
  - See also Molluscan shellfish; Fish*
- Cleanability
  - carpeting, 140-141
  - ceilings, 140-142
  - floor and wall junctures, 141
  - floors, 140-142
  - food-contact surfaces, 81-82
  - mats and duckboards, 142
  - nonfood-contact surfaces, 81
  - studs, joists, and rafters, 142
  - utility lines, 141
  - wall and ceiling attachments, 142
  - wall and ceiling coverings and coatings, 142
  - walls, 140-142
- Cleanable fixtures, plumbing system, 123
- Cleaned in place. *See CIP*
- Cleaners. *See Poisonous or toxic materials*
- Cleaning agents
  - handwashing, 146
  - warewashing equipment, 100
- Cleaning and sanitizing
  - equipment and supplies for refuse, recyclables, and returnables, 137
  - equipment and utensils to prevent food cross contamination, 104-112
  - knowledge demonstrated by person in charge, 20-21
  - maintenance tools, preventing contamination, 151
  - physical facilities, frequency and restrictions, 150
  - procedure for employees' hands and arms, 29
  - ventilation systems, nuisance and discharge prohibition, 151

# INDEX

- Cleaning of equipment and utensils
  - criteria, 104
  - frequency, 104-108
  - methods, 108-111
- Cleanliness, personal, of employees
  - fingernails, 29, 32
  - hands and arms, 29-32
  - jewelry, prohibition, 32
  - outer clothing, 32
- Clostridium botulinum***, nongrowth in reduced atmosphere packaging, variance, 69-71  
*See also potentially hazardous food definition*
- Clothes washers and dryers
  - availability, 95
  - location for contamination prevention, 96
- Clothing, outer, of employees, clean condition, 32
- Cloths
  - for use with raw foods of animal origin, treatment, 50
  - for wiping food spills, criteria, 50
- Code
  - applicability, 163-165
  - conformance with, history, role in frequency of inspections, 176-177
- Code of Federal Regulations, definition, 3
- Cold holding of potentially hazardous food, 61-62
- Cold-plate beverage cooling devices, separation from stored ice, design, and construction, 84
- Color additive, 2
- Comminuted, definition, 3
  - cooking fish and meats, 56
- Commissary. *See food establishment definition*
- Common name, 47
- Communicable. *See Infectious agent*
- Community or individual facility for disposal of refuse, recyclables, and returnables, 137
- Compactors, on-site, 134
- Compliance and enforcement, 184-188
- Compliance with Code, responsibility of permit holder, 165, 170-172
- Condenser unit, separation from food and food storage space, 86
- Condiments, protection from contamination by consumers, 53-54
- Conditioning device, plumbing system
  - design, 124
  - location, 125
- Confidentiality
  - protection, 169
- Confirmed disease outbreak, definition, 4
- Construction
  - food establishment, plans and specifications, requirement, 166-169
  - inspection and approval, 169
  - mobile water tank and mobile food establishment water tank, 127-130
  - plumbing system, 122-124
- Consumer
  - advisory for raw or undercooked animal foods, 74 (Reserved)
  - definition, 4
  - food on display, protection from contamination by, 53
  - information requirements, 73
  - self-service, clean tableware for refills, 51
  - self-service operations, protection from contamination, 53-55
- Consumer-owned container, refilling, 110-111
- Consumers at risk, advisory for fully cooked animal foods, 74 (Reserved)
- Contact time, chemical sanitization of equipment food-contact surfaces and utensils, 112
- Container prohibitions for poisonous or toxic materials, 158
- Containers
  - food storage, common name identification, 47
  - poisonous or toxic materials labeling and identification, 155
  - use prohibition, 158
  - working, common name identification, 155*See also Single-service articles*
- Contaminated food, disposition, 74
- Contamination of food after receiving, prevention, 45-48
- Contamination prevention, location of equipment, clothes washers/dryers, and storage cabinets, 96
- Control of foodborne disease transmission by employees, 182-184
- Controlled atmosphere packaging. *See Reduced oxygen packaging*
- Conversion of food establishment, plans and specifications, requirement, 166
- Cooking
  - equipment, cleaning frequency, 104-107
  - destroying organisms of public health concern, 55-58
  - requirements for raw animal foods, variance, 55-58
  - utensils. *See Kitchenware*
- Cooling
  - capacity, food equipment, 93
  - methods to limit growth of organisms of public health concern, 62-63
  - potentially hazardous cooked food, 20, 22, 62
- Copper and copper alloys, use limitation in food contact and fittings, 79
- Corned beef roasts
  - minimum holding times for cooking, 56-57
  - oven parameters for cooking, 56-57
- Correction of critical violation
  - time frame, 179
  - timeliness, 181
  - verification and documentation, 181
- Corrective action
  - compliance, 173-175
  - failure to demonstrate compliance, 178
- Corrosion-resistant material, definition, 4
- Cosmetics. *See Personal care items*
- Counter guards. *See Food display*
- Critical control points
  - definition, 4

# INDEX

- flow diagram, 168
  - knowledge demonstration by person in charge, 19-21
  - monitoring, responsibility of permit holder, 173-175
  - standard operating procedures, 168
- Critical item, definition, 4
- Critical limit
  - definition, 4
  - nonconformance documentation, 178
  - violations, timely corrections, 180
- Cross connection, water supply system, prohibition, 126
- Cross contamination of food, protection by separation and segregation, 46-47
- Crustacea shells, use limitation, 104
- Crystal utensils, lead limitation, 78
- Cups, refilling in consumer self-service, 52
  - See also Hollowware*
- Cut, infected. *See Lesion, containing pus*
- Cutting surfaces
  - materials, 79
  - resurfacing, 98
- Data plate, warewashing machine, 89
- Date marking of ready-to-eat, potentially hazardous food, 64-67
- Dealer's tag/label for molluscan shellstock, requirements, 42-43
- Deli tissue, use to avoid contaminating food, 45
- Demonstration of knowledge. *See Person in Charge; Supervision*
- Denial of application for operating permit, notice, 173
- Design, construction, and installation
  - equipment and utensils
    - acceptability, 92
    - accuracy, 83
    - cleanability, 81
    - durability and strength, 81
    - functionality, 84
  - physical facilities
    - cleanability, 140-142
    - functionality, 142
    - mobile water tank and mobile food establishment water tank, 127-129
    - plumbing system, 123-124
    - sewage system, 131-132
- Design standard, backflow prevention device, 123
- Detergents. *See Cleaning agents*
- Detergent-sanitizers
  - for warewashing equipment, 103
  - rinsing procedures, 109-110
- Deviations from Code
  - documentation, 178-179
  - See also Modifications; Variance; Waivers;*
- Devices. *See Physical facilities*
- Diarrhea, employee symptom, 24
- Dipper wells. *See Utensils, in-use storage*
- Disease of employee, 23-29
- Disease or medical condition, reporting responsibility, 28-29
- Disease outbreaks caused by ***S. Typhi***, ***Shigella*** spp., ***E. coli*** O157:H7, or hepatitis A virus, 24-25
- Dish basket. *See Basket*
- Dishes. *See Tableware*
- Dishwashing. *See Warewashing*
- Disinfection
  - drinking water system, 120
  - mobile water tank and mobile food establishment water tank, 129-130
- Dispensing equipment, design and construction for protection of equipment and food, 85-86
- Dispensing tube, bulk milk container, 104
- Display. *See Food display*
- Disposable towels, waste receptacle, 134
- Disposal facilities
  - refuse, recyclables, and returnables, 133-138
  - sewage, other liquid wastes, and rainwater, 132
- Disposition of ready-to-eat, potentially hazardous food, 67-68
- Distressed merchandise, segregation and location, 150
- Documentation
  - correction of critical violation, 180-181
  - inspection report, 178-179
  - variances, 165
- Dogs in food establishments
  - patrol and sentry, 153-154
  - pets, 153-154
  - service, 153-154
- Dollies. *See Case lot handling equipment*
- Doors
  - common dining area, 153-154
  - equipment maintenance, 98-103
  - physical facility, 143-146
  - refuse receptacle, 133-137
  - toilet room, 152
  - vending machine, 85-86, 91-92
- Drain plugs for equipment and receptacles for refuse, recyclables, and returnables, 136
- Drainage of equipment compartments, 91
- Drainage system, food establishment, design and installation, 131
- Drainboards
  - capacity, 94
  - cleaning frequency, 99
  - cleanability, 81-82
  - warewashing, self-draining, 90
- Drains, indirect, 131
- Dressing areas
  - designation, 148
  - use by employees, 152
- Dried eggs, condition at receipt, 41
- Drinking by employees, food contamination prevention, 33
- Drinking water
  - bottled, source, 120
  - definition, 4

# INDEX

- Drinking water systems
  - approved, 119
  - flushing and disinfection, 120
- Drip prevention, design and construction of ventilation hood systems, 84
- Driving surfaces. *See Surface characteristics, outdoor*
- Dry cleaning methods, equipment and utensils, 108
- Dry eggs, 41
- Dry milk, 41
- Dry storage area, definition, 5
- Drying agents, criteria, 158-159
- Duckboards, cleanability, 139-140
- Dustless methods of cleaning floors, 151
- E. coli.*** *See Escherichia coli*
- Easily cleanable, definition, 5
- Easily movable, definition, 5
- Eating by employees, food contamination prevention, 33
- Effective date of Code, 163
- Eggs
  - boiled, *see potentially hazardous food definition*
  - cooking requirements, 55-56, 75-76
  - lightly cooked or raw, consumer advisory, 73 (Reserved)
  - liquid, frozen, and dry, condition at receipt, 41
  - pasteurized, substitute for shell eggs, 47, 75
  - pooling, 47, 55-56, 75
  - potentially hazardous food, 12
  - service to highly susceptible populations, 75-76
- Eggs, raw, shell
  - condition at receipt, 40
  - cooling, 62
  - temperature at receipt, 40
- Elderly. *See Highly susceptible population*, 74
- Emergency occurrence. *See Imminent health hazard*
- Employee
  - accommodations, location, 149
  - definition, 5
  - disease or medical condition, 23-29
  - dressing areas, number, 148
  - eating, drinking, and tobacco use, designated areas, 33
  - food contaminated by, disposition, 74
  - hygiene, 33
  - ill, exclusions and restrictions, 25-28
  - practices, supervision of, 21-28
  - prevention of food contamination, 45
  - responsibility to report illness, 28-29
  - serving high-risk populations, exclusions and restrictions, 25-28
  - See also Food employee; Permit holder; Person in charge*
- Emu. *See Ratites*
- Enclosures for refuse, recyclables, and returnables, operation and maintenance, 133, 135
- Enforcement. *See Compliance and enforcement*
- EPA, definition, 5
- Equipment
  - air-drying, 114
  - assessment for Code enforcement, 163-164
  - case lot handling, 91
  - cleaning criteria, 104
  - cleaning frequency
    - food-contact surfaces/utensils, 104-107
    - nonfood-contact surfaces, 108
    - warewashing, 99
  - compartments, drainage, 91
  - cooling, heating, and holding capacities, 93
  - definition, 6
  - design and construction, durability and strength, 81
  - existing, 63-64, 163-164, 173-175
  - fixed, elevation or sealing, installation, 97
  - fixed, spacing or sealing, installation, 97
  - food-contact surfaces and utensils, cleaning frequency, 104-107
  - HACCP plan, 167-168
  - location for contamination prevention, 96
  - maintenance, 98
  - necessary replacement, 173-175
  - plans, 166
  - reassembly after cleaning, 115
  - repair and adjustment, 98
  - storage, 153
  - storage prohibitions, 116
- Equipment certification and classification, 92
- Equipment and utensils, dry cleaning methods, 108
  - precleaning, 108
  - rinsing procedures, 109
- Equipment openings, closures and deflectors, design and construction, 84-85
- Equipment, utensils, and linens
  - cleaning, 104-111
  - design and construction, 81
  - laundrying linens, 113-114
  - location and installation, 96-98
  - maintenance and operation, 98-104
  - materials for construction and repair, 77-81
  - numbers and capacities, 93-95
  - protection of clean items, 114-117
  - sanitization of equipment and utensils, 111-112
  - See also Physical facilities*
- Escargot. *See Fish*
- Escherichia coli*** O157:H7
  - cause of disease outbreak, 23-25
  - cause of employee illness, 23-25
  - employee exclusion and restriction, 25-28
  - reporting responsibility of person in charge, 28-29
  - infection, conditions for release of employee from restriction or exclusion, 26-28
  - stools are free of, 27
- Exclusion of employee
  - illness, 25-26
  - infection or disease, 25-26

# INDEX

- release, 26, 28, 183-184
- removal, 26-28, 183-184
- Exclusion order
  - for infected or diseased employee, 183
  - service, 188-189
- Expiration time for potentially hazardous food, 64-67
- Facilities
  - assessment for Code enforcement, 163-164
  - disposal, recycling, and refilling of waste, 137
  - necessary replacement, 173-175
  - on-premises for refuse, recyclables, and returnables, 131-136
- Facility plans and specifications, submission and approval, 166
- Faucet, handwashing, 123
- Fee for operating permit, issuance criteria, 170
- Fever, employee symptom, 24
- Filter, compressed air, for drinking water system, 129
- Filtering equipment, hot oil, design and construction, 83
- Fingernails
  - artificial, prohibition, 32
  - of employees, maintenance, 32
- First aid supplies in food establishments, storage, *See also Personal care items*
- Fish
  - consumer self-service, 54
  - cooking requirements, 55-58
  - definition, 6
  - frozen by supplier, freezing records, 59
  - other than molluscan shellfish, 36, 59
  - raw, storage, 46
  - use of clean equipment, 105
  - use of laundered gloves, 113
- Fish, lightly cooked or raw, consumer advisory, 73 (Reserved)
  - immersion in ice or water, 48-49
  - marinated, or partially cooked, ready-to-eat, records of freezing, 59
  - restriction on reduced oxygen packaging, 71
- Fitting or tubing, copper and copper alloys, use limitation, 79
- Fixtures. *See Physical facilities*
- Flatware. *See Tableware*
- Floor drains, cleanability, 141
- Floor-mounted equipment, clearance, 97
- Floors
  - absorbent materials, use limitation, 151
  - and floor coverings, cleanability, 140-142
  - dustless cleaning methods, 151
- Flow pressure valve, warewashing machine, 90
- Flushing
  - drinking water system, 120
  - mobile water tank and mobile food establishment water tank, 130
  - waste retention tanks, 132
- Flux, use limitation for food-contact surfaces, 79
- Fogging devices, cleaning the water reservoir, 126-127
- Food
  - additives, 2, 15, 31, 38, 40, 48, 69, 72, 159
  - characteristics, 35
  - contact with equipment and utensils, 49
  - contaminated, 74
  - cooked, potentially hazardous, cooling, 62-63
  - damaged, spoiled, or recalled, storage, 46
  - definition, 6
  - destroying or denaturing, 194
  - destruction of organisms of public health concern, 55-58
  - examining, sampling, and testing, 194
  - frozen, potentially hazardous, 40, 60-61
  - hermetically sealed, source, 37
  - honest presentation, 1, 72, 163
  - identity, presentation, and on-premises labeling, 37, 72, 73
  - in contact with water or ice, storage or display, 49
  - limitation of growth of organisms of public health concern, 60-68
  - packaged and unpackaged, separation, packaging and segregation, 46
  - packaged, labeling, 36, 37, 72-73
  - protection from contamination, 45-55
  - specialized preparation methods, variance requirement, 44, 58, 69, 87, 165, 167
  - standards of identity, 72
  - temperature and time control, limiting growth of organisms of public health concern, 60-71
  - vended, potentially hazardous, original container, 53
- Food, potentially hazardous
  - HACCP plan, 167-168
  - hot and cold holding, 63-64
  - preparation, application for permit, 169-172
  - temperature at receipt, 40
  - time as public health control, 68-69
- Food, ready-to-eat, potentially hazardous
  - date marking, 64-67
  - disposition, 67-68
- Food bank. *See Food establishment*
- Food cart. *See Food establishment, definition, mobile*
- Food Code
  - intent, 1
  - scope, statement, 1
  - standards, 1
  - title, 1
- Food contact, copper, use limitation, 79
- Food-contact surfaces
  - assessment for Code enforcement, 163-164
  - cast iron equipment, use limitation, 78
  - construction materials, 77
  - copper, use limitation, 79
  - cleaning criteria, 104
  - cleaning frequency of equipment, 104-107
  - definition, 6
  - design and construction, cleanability, 81-83

# INDEX

- galvanized metal equipment, use limitation, 79
- lead in pewter alloys, use limitation, 79
- lead in solder and flux, use limitation, 79
- linens and napkins, use limitation, 50
- lubricating, 115
- sanitization criteria, 111
- sanitization frequency, 111
- sanitization methods for equipment, 112
- "V" threads, use limitation, 82
- wet cleaning methods for equipment, 108-109
- wood, use limitation, 79-80
- Food containers
  - placement in cooling or cold holding equipment, 63
- Food contamination
  - by persons, discarding, 74
  - by unclean utensils and equipment, 49
  - prevention after receiving, 45
  - prevention by employees, 33, 45
- Food display, preventing contamination by consumers, 53-55
- Food employee
  - definition, 6
  - responsibility to report illness, 28
- Food establishment
  - definition, 7
  - identity information, 170
  - inspection, frequency, 175-176
  - permit to operate, 169-175
  - plans and specifications for construction, conversion, or remodeling, 166
  - temporary, inspection frequency, 175
- Food guards. *See Food display*
- Food management, plans, 166-169
- Food package integrity, 41
- Food processing, variance required, 69
- Food processing plant, definition, 8
- Food reheated in microwave oven, requirements, 60
- Food safety
  - control measures, HACCP plan, 167-168
  - intent of Food Code, 1
  - purpose of Code, 1
- Food service establishment. *See Food establishment*
- Food sources,
  - compliance with food law, 36
  - original containers and records, 44
- Food specifications for receiving, 40-43
  - temperature, 40
- Food-specific container for beverages, refilling, 110-111
- Food storage
  - containers, identification of food, 47
  - preventing contamination from premises, 52-53
  - prohibited areas, 52-53
- Food temperature measuring devices
  - accessibility, 95
  - design and construction, 81
- Food vending location/areas
  - outdoor, overhead protection, 145
  - See also Food establishment*
- Food volume, proposed, plans, 166
- Foodborne disease
  - outbreak, definition, 6
  - prevention, knowledge, 19-21
- Foodborne illness
  - frequency of inspections, 175-177
  - transmission by employees, prevention, 182-183
- Foot candles. *See Lighting*
- Fork lifts. *See Case lot handling equipment*
- Forks. *See Tableware*
- Freezing to destroy organisms of public health concern, 59
- Frog. *See Fish*
- Frozen eggs, condition at receipt, 41
- Frozen food
  - limiting growth of organisms of public health concern, 59
  - maintain frozen, 60
  - shipped frozen received frozen, 40
- Fruits, raw
  - cooking, 59
  - washing, 48
  - whole or cut, immersion in ice or water, 49
  - whole, uncut, storage, 47
- Galvanized metal, use limitation for utensils and food-contact surfaces of equipment, 79
- Game animal
  - commercially raised for food, 38, 55-56
  - cooking requirements, 55-56
  - definition, 8
  - exotic species, 39, 55-56
  - limitations as food source, 38-39
  - wild, field-dressed, limitations as food source, 39, 56
- Gauge cock. *See Flow pressure valve*
- Garbage. *See Refuse*
- Garlic. *See potentially hazardous food definition*
- Gastrointestinal illness, symptoms of employee, 24
- General use pesticide, definition, 8
- Glasses, refilling in consumer self-service, 51
- Gloves
  - cloth, laundering frequency, 113
  - single-use, 45, 51
  - slash-resistant, 51
- Grease traps, in food establishment drainage systems, 132
- Ground beef. *See comminuted definition*
  - cooking, 56
- Group residence, definition, 9
- Guard dog. *See Service animal*
- HACCP plan
  - compliance, responsibility of permit holder, 173
  - contents, 167-168
  - critieria, reduced oxygen packaging, 69-70
  - critical limits, nonconformance, 179
  - definition, 9
  - knowledge by person in charge, 19-21

# INDEX

- variances, 165
- HACCP principles, failure to demonstrate knowledge, 178
- Hair restraints for employees, effectiveness, 33-34
- Hamburger. *See comminuted definition*
- cooking, 56
- Hand drying provision, 147
- Hand, sanitizers, 30-32
- Hand sanitizers for employees, 30-32
- Handling
  - kitchenware, 117
  - single-service and single-use articles, 117
  - tableware, 117
- Hands and arms of employees
  - clean condition, 29
  - cleaning procedure, 29
  - hand sanitizers, 30-31
  - special handwash procedures, 29
  - when to wash, 30
  - where to wash, 30
- Hands, employees, avoiding contact with food, 45
- Handwashing
  - cleanser, availability, 146
  - food employees, 45
  - procedures, special, for employees, 29
  - signage, 147
- Handwashing facilities
  - cleanability, 123
  - design and construction, 123
  - location and placement, 125, 149
  - maintaining and using, 152
  - numbers and capacities, 124, 146
  - operation and maintenance, 125-126
  - use required, 29-30
  - water temperature, 123
- Harvester's tag/label for molluscan shellstock, requirements, 41-42
- Hazard Analysis Critical Control Point. *See HACCP plan*
- Hazard, definition, 9
- Health hazard, imminent
  - discontinuance of operations and reporting requirement, 180
  - prevention, Code application, additional requirements, 164, 179, 180
  - summary suspension of operations, 180
- Health status of employee, required reporting, 179
- Heat lamp, shield, 142-143
- Heater, for manual warewashing equipment, 90
- Heating capacity, food equipment, 93
- Hepatitis A virus
  - cause of disease outbreak, 24-25
  - cause of employee illness, 24
  - conditions for release of employee from restriction or exclusion, 183-184
  - virus-free employee, removal of restriction, 27-28
- Hermetically sealed
  - container, definition, 9
  - food, source, 36
  - food containers, cleaning, 46
  - reheating, food taken from a container, 60
- High-risk conditions of employee illness, 24-25
- High-risk population. *See Highly susceptible population*
- Highly susceptible population
  - consumer advisory, 74 (Reserved)
  - definition, 9
  - exclusions and restrictions of ill employees, 23-24
  - frequency of inspection, 177
  - permit application, 171
  - special requirements, 75
- Holding capacity, food equipment, 93
- Holding tank. *See Sewage, holding tank*
- Holding time, minimum
  - comminuted meats, 55-56
  - cooking, roast beef and corned beef, 56-57
- Hollowware. *See Tableware*
- Homes and living/sleeping quarters, private, use prohibition, 146
- Honest presentation, intent of Food Code, 1
- Hooks, slab bacon, 47
- Hood. *See Ventilation systems*
- Hot holding of potentially hazardous food, 63
- Hot water
  - quantity and availability, 121
  - sanitization of equipment food-contact surfaces and utensils, 109
- Hygienic practices of employees
  - food contamination prevention, 33
  - hair restraints, 33
  - handling animals, prohibition, 34
- Ice
  - defined as food, 41
  - exterior cooling, prohibition as ingredient, 48
  - source, 41
  - storage or display of food in contact with, 49
- Ice units, separation of drains, design and construction, 86
- Identity standards for food, 72. *See also juice definition*
- Illness of employee, investigation, 182
- Illness prevention, intent of Food Code, 1
- Imminent health hazard
  - ceasing operations and reporting, 180
  - definition, 9
- Immunocompromised persons. *See Highly susceptible population*
- In-place cleaning. *See CIP definition*
- Incinerators for solid waste, 137
- Individual sewage disposal system, disposal through approved system, 132
- Indoor areas, materials, 139-140
- Infection, employee, symptom, 24
- Infectious agent, employee freedom from, removal of restriction, 26-28
- Ingredients, HACCP plan, 168
- Injected, definition, 9
- Insect control
  - devices, design, and installation, 143



# INDEX

- food establishments, poisonous or toxic materials, 156
  - maintenance, 153
  - outer openings protected, 144
  - See also Pest control*
- Insects, dead or trapped, removal, 153
- Inspection, frequency
  - establishing, 175-176
  - performance- and risk-based, 176-177
- Inspection order
  - access to premises and records, 177
- Inspection port, enclosed water system, 128
- Inspection, preoperational, 169, 172
- Inspection report
  - acknowledgment of receipt, 179
  - documentation, 178-179
  - issuance, 179
  - public information, 180
  - receipt, refusal to sign acknowledgment, 179-180
- Installation
  - equipment, 97-98
  - plumbing system, 119-120
- Institutional food service. *See Food establishment, highly susceptible population*
- Interstate Certified Shellfish Shippers List, sources of molluscan shellfish, 37
- Intestinal illness of employee, 23
- Iodine solutions, chemical sanitization, 102
- Jars.** *See Single-use articles*
- Jaundiced employee
  - exclusions and restrictions, 25-26
  - symptom, 24
- Jaundice-free employees, removal of exclusions and restrictions, 27-28
- Jewelry, employees, prohibition exception, 32
- Juice
  - definition, 9
  - service to highly susceptible populations, 75,
  - source, 36
- Junctures, floor and wall, coved and enclosed or sealed, cleanability, 141
- Justification, variances, 165
- Kick plates**, removable, design and construction, 83
- Kitchenware
  - definition, 9
  - handling, 117
- Knives. *See Tableware*
- Label**, common name on food container, 47
- Labeling
  - packaged food, 36
  - compliance with law, 72-73
  - poisonous or toxic materials and personal care items, 155
- Lamb
  - consumer self-service, 54
  - rare or raw, consumer advisory, 74 (Reserved)
  - raw, storage, 46-47
  - use of clean equipment, 104-105
  - use of laundered gloves, 113
- Landfills for solid waste, 137
- Laundering linens
  - criteria, 113-114
  - frequency, 113
  - mechanical washing, 114
  - methods, 113-114
- Laundry facilities, use limitations, 114
- Lavatories. *See Handwashing facilities*
- Law, definition, 9
- Layout, proposed, plans, 166-167
- Lead limitation in ceramic, china, crystal, and decorative utensils, 78
- Lesion, containing pus, 24
- Light bulbs, protective shielding, 142-143
- Lighting, intensity, 148
- Linens and napkins, use limitation for food-contact surfaces, 50
- Linens
  - definition, 10
  - laundering criteria, 113-114
  - laundering frequency, 113-114
  - laundering methods, 113-114
  - mechanical washing methods, 114
  - soiled, storage methods, 113
  - storage after cleaning, 115
  - storage prohibitions, 116
- Liquid eggs, condition at receipt, 41
- Liquid food or ice, dispensing equipment, design and construction, 85-86
- Liquid food vending machines, waste receptacle, 91
- Liquid waste
  - drain lines, design and construction, 86
  - other than sewage, disposal facility, 132
  - products from vending machines, 91
  - See also Sewage*
- Litter, removal, 153
- Living/sleeping quarters, separation, 146
- Loading soiled items, warewashing machines, 108
- Location, grease trap, 132
- Lockers
  - designation, 148
  - location, 149
  - using, 152
- Lubricants, incidental food contact, criteria, 159
- Lubricating food-contact surfaces, 115
- Maintenance**
  - equipment, storage, 153
  - refuse areas and enclosures, 136
  - tools, cleaning, 151
  - See also Operation and maintenance*
- Management and personnel
  - employee health, 23-28
  - hygienic practices, 33-34
  - personal cleanliness, 29-33
  - supervision, 19-23
- Manual warewashing. *See Warewashing*
- Manufacturers' dating information, 73
- Materials

# INDEX

- construction and repair, surface
  - characteristics, 139-140
  - HACCP plan, 167-168
- mobile water tank and mobile food
  - establishment water tank, 127
- See also Physical facilities*
- Mats, floor, cleanability, 142
- Meal portions, individual, from bulk container, 67
- Meats
  - cooking requirements, 55-57
  - cured, 67
  - customer self-service, 54
  - definition, 9
  - rare or raw, consumer advisory, 74 (Reserved)
  - raw, storage, 46
  - use of clean equipment, 104-107
  - use of laundered gloves, 113
- Mechanical warewashing. *See Warewashing*
- Medical condition of employee, 23-28
- Medical history of ill employee, 182
- Medicines in food establishments
  - restriction and storage, 160
- See also Personal care items*
- Melons, cut. *See potentially hazardous food definition*
- Menu, proposed, plans, 166
- Menu items, consumer advisory, 74 (Reserved)
- mg/L, definition, 10
- Microwave ovens
  - cooking, 58
  - reheating food, requirements, 59-60
  - safety standards, 99
- Milk and milk products, dry, fluid, and frozen,
  - pasteurized at receipt, 41
- Milk, fluid, and milk products
  - cooling, 62-63
  - dispensing tube, 104
  - raw, consumer advisory, 74 (Reserved)
  - source, 37
  - temperature at receipt, 40
- Mixing valve, handwashing lavatory, 123
- Mobile facility, alternative water supply, 122
- Mobile food establishment
  - application for permit, 169-172
  - sewage holding tank, capacity and drainage, 131
  - water tank, inlet, 129-130
  - waste removal, 132
- Mobile water tank and mobile food establishment
  - water tank,
    - design and construction, 128-129
    - flushing and disinfection, 130
    - materials, 127
    - numbers and capacities, 129-130
    - operation and maintenance, 130
- Modifications. *See also Variance and Waivers*
  - Code application, 164
  - conformance with approved procedures, 165
- Molluscan shellfish
  - definition, 10
  - lightly cooked or raw, consumer advisory, 74 (Reserved)
  - original container, requirements, 43
  - packaging and identification, 41-42
  - shellfish, source, 37
  - shucked, original container, labeling, 43-44
  - tanks, use limitations, 87
  - variance, 87
- Molluscan shellstock
  - condition on receipt, 43
  - cooling, 62
  - identification specifications, 42-43
  - temperature at receipt, 40
- Mollusk. *See Fish*
- Mollusk shells, use limitation, 104
- Mops, drying, 151
- Mouthwash. *See Personal care items*
- Moveability, case lot handling equipment, 91
- Moveable. *See Easily moveable*
- Multiuse utensils and food-contact surfaces,
  - construction materials, characteristics, 77-80
- Mushrooms
  - cultivated wild species, source, 38
  - wild, source, 38
- Mussels, lightly cooked or raw, consumer advisory, 74 (Reserved) *See also Molluscan shellfish*
- Napkins, cloth, laundering frequency, 113
  - See also Linens*
- National Shellfish Sanitation Program
  - certification number, 3
  - Guide for the Control of Molluscan Shellfish, 42
- Nitrates, nitrites, and salt for curing, variance
  - specifications, 69
- Nonconformance with Code, documentation, 178-179
- Noncritical violation, time frame for correction, 181
- Nondrinking water, quality, 120
- Nonfood-contact surfaces
  - cleaning criteria, 104
  - cleaning frequency, 108
  - construction materials, characteristics, 80
  - design and construction, 83
- Notice of denial of application for operating permit, 173
- Nutrition labeling, 72-73
- Nuts in shell, storage, 47
- Odors
  - mechanical ventilation, 148
  - multiuse equipment materials, 77-80
  - refuse removal frequency, 137
  - single-service/use article materials, 81-82
- Off-premise
  - cleaning services for refuse, recyclables, and returnables, 135
  - delivery and consumption of potentially hazardous food, application for permit, 171
- Oil equipment
  - "V" threads, 82

# INDEX

- filtering, 82
- On-site cleaning of returnables, 110-111
- Openings, to outdoors, protection against insects and rodents, 144
- Openings, vending machines, design and construction, 91-92
- Operating permit, food establishment
  - applicant qualifications and responsibilities, 170
  - application contents, 170-172
  - conditions for retention, responsibilities, 173-175
  - converted establishment, 172
  - form, 168
  - new establishment, 172
  - nontransferability, 174
  - notice of denial of application, 173
  - prerequisite, 169
  - remodeled establishment, issuance criteria, 172
  - timing, 169
- Operating plans and specifications, submission and approval, 166-169
- Operating procedures, standard
  - HACCP, 167
  - plans, 167-168
- Operation and maintenance
  - mobile water tank and mobile food establishment water tank, 130
  - physical facilities, 150-154
  - plumbing system, 125-127
  - resumption after suspension, 180
  - sewage system, 131
  - suspension for imminent health hazard, 180
- Organisms of public health concern
  - destruction, 55-60
  - growth limitation, 60-71
- Outdoor areas, materials, 138
- Ostrich. *See Ratites*
- Outdoor refuse areas, curbed and graded to drain, 145
- Outdoor walking and driving surfaces, graded to drain, 145
- Outside receptacles for refuse, recyclables, and returnables, design and construction, 134
- Outside storage of refuse, recyclables, and returnables, prohibitions, 136
- Oven
  - cooking temperature, 55-57
  - microwave, 58-60, 99, 107
- Overhead protection for outdoor food vending and servicing areas, 145
- Overwraps, colored, for food, limitations, 72
- Ownership change, operating permit, 172
- Oysters, lightly cooked or raw, consumer advisory, 74 (Reserved)
  - See also Molluscan shellfish*
- Package integrity, 41
- Packaged, definition, 10
- Packaged food
  - labeling, 36
  - labels, compliance with law, 72-73
  - separation and segregation from unpackaged food, 46
- Packaging and identification of shucked molluscan shellfish, 41-42
- Packaging, reduced oxygen
  - conditions requiring a variance, 69-70
  - definition, 14
  - HACCP plan and variance criteria, 70-71
- Pallets. *See Case lot handling equipment*
- Parasite destruction in fish by freezing, 59
- Parts per million. *See mg/L*
- Patrol dogs, 34, 153-154
- Performance-based frequency of inspection, 176-177
- Permit, definition, 10
- Permit holder
  - agreement, replacement of facilities or equipment, 163-164
  - definition, 10
  - posting in food establishment, responsibility, 173
  - responsibilities for permit retention, 173-175
  - See also Employee*
- Permit renewal, existing food establishment, 172
- Permit to operate food establishment, 169-175
- Person, definition, 10
- Person in charge
  - assignment, 19
  - definition, 10
  - demonstration of knowledge, 19-21, 177-178
  - duties, 21-23
  - employee responsibility for reporting illness, 28
  - responsibility to report certain employee illness, 28
  - responsibilities, rights, and authorities, explanation, 21
  - See also Employee*
- Personal care items
  - definition, 10-11
  - first aid supplies, storage, 160
  - in food establishments, storage, 161
  - labeling and identification, 156
  - medicines, restriction and storage, 160
  - operational supplies and applications, 156-161
  - stock and retail sale, 161
- Personal cleanliness, 29-33
- Personal medications. *See Medicines*
- Personnel, supervision, 19-23
- Pest control, 152
  - outer openings protected, 144
  - See also Insect control; Rodent control*
- Pesticides in food establishments
  - application, 159
  - bait stations, 159
  - restricted use pesticide, conditions of use, 157
  - restricted use pesticide, criteria, 159
  - tracking powders, 159-160

# INDEX

- See also Poisonous or toxic materials*
- Pests, dead or trapped, removal, 153
- Pets in group residence dining areas
  - restrictions, 154
- Pewter, use limitation for food-contact surfaces, 79
- pH
  - chemical sanitization of warewashing equipment, 102-103
  - definition, 11
- Physical facilities
  - cleaning
    - floors, dustless methods, 151
    - frequency and restrictions, 150
    - maintenance tools, preventing contamination, 151
    - ventilation systems, nuisance and discharge prohibition, 151
  - controlling pests, 152
  - definition, 11
  - design, construction, and installation, 140-146
  - dressing rooms and lockers, using, 152
  - drying mops, 151
  - handwashing laboratories, maintaining and using, 152
  - location and placement, 149-150
  - maintaining premises, 153
  - maintenance and operation, 150-154
  - materials for construction and repair, 139-140
  - minimizing attractants and contaminants on floors, 150-152
  - numbers and capacities, 146-149
  - pests, dead or trapped, removal, 153
  - prohibiting animals, 153-154
  - repairing, 150
  - storage, of maintenance tools, 153
  - toilet room doors, closing, 152
- Pickle barrels. *See Single-use articles*
- Pinning. *See Injected, definition*
- Plans and specifications for food establishment
  - contents, 166-167
  - facility and operating, requirement, 166
  - issuance criteria for operating permit, 172
- Plastic tubs, buckets. *See Single-use articles*
- Plates. *See Tableware*
- Plumbing fixture, definition, 11
- Plumbing system
  - air gap, 121
  - backflow prevention, 123
  - conditioning device, design, 124
  - construction, 123
  - definition, 11
  - design, 123
  - device, water system, inspection and service, 126
  - handwashing laboratory, design and construction, 123
  - installation, 123-125
  - location and placement, 125
  - materials, 122
  - numbers and capacities, 124
  - operation and maintenance, 125-126
- Poisonous or toxic materials
  - bait stations, 159
  - boiler water additives, criteria, 158
  - chemical sanitizers, criteria, 158
  - chemicals for washing fruits and vegetables, criteria, 158
  - common name, 155
  - containers, prohibition for food use, 158
  - definition, 11
  - drying agents, criteria, 158-159
  - in food establishments, use conditions, 157
  - knowledge by person in charge, 19
  - lubricants, incidental food contact, criteria, 159
  - pesticides, application, 157
  - restriction of presence and use in food establishments, 156-157
  - storage, separation, 156
  - tracking powders, 159
  - See also Personal care items*
- Pork
  - cooking requirements, 56
  - consumer self-service, 54
  - rare or raw, consumer advisory, 74 (Reserved)
  - raw, storage, 46-47
  - use of clean equipment, 103-105
  - use of laundered gloves, 113
- Portable. *See Easily moveable*
- Potable water. *See Drinking water*
- Potentially hazardous food
  - definition, 12
  - See also Food; Food, potentially hazardous; Food, ready-to-eat, potentially hazardous*
- Poultry
  - cooking requirements, 56
  - customer self-service, 54
  - definition, 13
  - rare or raw, consumer advisory, 74 (Reserved)
  - raw, storage, 46
  - use of clean equipment, 103-105
  - use of laundered gloves, 113
- Precleaning equipment and utensils, 108
- Premises
  - definition, 13
  - maintenance, 153
  - See also Physical facilities*
- Presentation of food, 72
- Preset tableware, handling, 117
- Pressure, water, 121
- Pressure spray, wet cleaning, 108-109
- Primal cut, definition, 13
  - storage on hooks or racks, 47
- Private home, unapproved food source, 36
  - food operations prohibited, 22, 146
- Probe-type price and identification tags, 49
- Processing at retail, 69-71
- Produce. *See Fruits, raw; Vegetables, raw*
- Proper service of notice, 188-189
- Public health protection, Code application, 163-164
- Public information, inspection report, 180

# INDEX

- Public sewage treatment plant, disposal through approved facility, 132
- Public water system, definition, 13
- Pushcart. *See Food establishment, definition, mobile*
- Quaternary ammonium compounds, chemical sanitization, 102-103
- Racks
  - case lot handling, 91
  - meat storage, 47
  - warewasher, 90, 100, 108
- Rainwater, disposal facility, 132  
*See also Sewage*
- Rapid
  - cooling, 62-63
  - growth. *See potentially hazardous food definition*
  - reheating, 59-60
- Ratites
  - cooking, 56
  - game animal, 8
  - poultry, 8
- Ready-to-eat food
  - consumer self-service, utensils and dispensers, 54
  - definition, 13
  - potentially hazardous food
    - date marking; disposition, 64-68
- Reassembly of equipment after cleaning, 115
- Receptacles for refuse, recyclables, and returnables
  - capacity and availability, 134
  - cleaning, 135
  - covering, 134
  - design and construction, 133-134
  - drain plugs, 136
  - equipment and storage, 150
  - location, 135
  - maintenance, 135-137
- Receptacles for removal of refuse, recyclables, and returnables, 137
- Reconstituted food cooling, 62
- Records
  - availability, responsibility of permit holder, 173-174
  - fish, freezing raw, 36, 59
  - HACCP, 165-168
  - HACCP plan conformance, failure to demonstrate, 178-179
  - molluscan shellstock, 44
  - water system service schedule, 126
- Recyclables. *See Refuse*
- Recycling facilities, 137
- Redeeming machines, location, 135
- Reduced oxygen packaging
  - conditions requiring variance, 69-70
  - definition, 14
  - HACCP plan and variance criteria, 69-70
- Refilling
  - clean tableware, 51
  - consumer self-service, using facilities, 110-111
  - returnables, 52, 110-111
- Refrigeration, cooling and cold holding, 62-64
- Refusal of access
  - application for inspection order, 178
  - reporting, 178-179
- Refusal to sign acknowledgment of inspection report receipt, 179-180
- Refuse areas and enclosures, maintenance, 136
- Refuse, definition, 14
- Refuse, recyclables, and returnables
  - cleaning implements and supplies, 135
  - design and construction, 133
  - facilities, on the premises, 133-137
  - facilities for disposal and recycling, 137
  - indoor storage area, design, 133
  - location, 135
  - outdoor enclosure, construction, 133
  - outdoor storage areas, construction materials, 133
  - outdoor storage surface, design and construction, 133, 145
  - removal, 137
  - storage, operation, and maintenance, 135-137
  - storage areas
    - equipment, and receptacles, location, 135
    - rooms, and receptacles, capacity and availability, 134
  - storage prohibitions, 136
  - toilet room receptacle, covered, 134
- Regulatory authority
  - definition, 14
  - responsibilities for permit issuance, 173
- Reheating
  - food from a hermetically sealed container, 60
  - hot holding, temperature requirements, 60
  - ready-to-eat food, requirements, 60
- Reinstatement
  - excluded or restricted employee, 26-28
- Remodeling of food establishment, plans and specifications, requirement, 166
- Removal, refuse, recyclables, and returnables, 137
- Reporting, disease; medical condition
  - by food employee and applicant, 23, 28-29
  - by permit holder, 174
  - by person in charge, 28
- Reporting, imminent health hazard
  - by permit holder, 174, 180
- Reservice of unopened packaged food and unused food, prohibition, 54-55, 75
- Responsibilities
  - permit holder for ceasing operations, 180
  - permit holder for permit retention, 173-175
  - regulatory authority for permit issuance, 173
  - rights and authorities, person in charge, 21-23
- Restaurant. *See Food establishment*
- Restricted use pesticide, definition, 15
- Restriction
  - employee, release, 183-184
  - infected or diseased employee, 182

# INDEX

- Restriction order
  - for infected or diseased employee, 183
  - service, 182-183
- Restrictions
  - employees, removal, 26-28
  - ill employees, 25-26
- Resumption of operations, 180
- Retail food store. *See Food establishment*
- Retention tank. *See Sewage, holding tank*
- Retirement home. *See Group residence*
- Returnables
  - on-site cleaning and refilling, 110-111
  - refilling, 52
  - See also Refuse*
- Revocation of permit. *See Summary permit suspension*
- Rhea. *See Ratites*
- Right of appeal, denial of application for operating permit, 173
- Rinsing procedures, equipment and utensils, 109-110
- Risk-based frequency of inspection, 176-177
- Roast beef
  - minimum holding times for cooking, 56-57
  - oven parameters for cooking, 57
- Roast corned beef
  - minimum holding times for cooking, 57
  - oven parameters for cooking, 57
- Rodent control, 152
  - in food establishments, poisonous or toxic materials, 156-157
  - outer openings protected, 144-145
  - See also Pest control*
- Rodents, dead or trapped, removal, 153
- Roe. *See Fish*
- Roofs, protective barrier, 145
- Rooms. *See Physical facilities*
- Safe material, definition, 15
- Salad bars, monitoring by food employees, 54
- Salmonella Typhi**
  - cause of disease outbreak and employee illness, 23-28
  - employee illness, reporting, 23-25
  - infection, conditions for employee restriction or exclusion, 25-26
  - reporting responsibility of person in charge, 28-29
- Salmonella Typhi**-free employee, removal of restriction or exclusion, 26-28, 183-184
- Salmonella Typhi**-positive specimen culture, 25-26, 184
- Sample report, private water system, 121
- Sampling, water, nonpublic system, 120
- Sanitization
  - chemical, manual, 101-103
  - chemical, warewashing equipment, 101-103
  - definition, 15
  - equipment and utensils, 111-112
  - hot water temperatures
    - manual, 101
    - warewashing equipment, 101
  - pressure, mechanical warewashing equipment, 101
  - See also Poisonous or toxic materials*
- Sanitizing solutions
  - chemical, determining concentration, 101-103
  - detergent-sanitizer, rinsing procedures, 109-110
  - hand, 30-32
  - testing devices, availability, 95
  - wiping cloth storage, 50
- Scallops. *See Molluscan shellfish*
- Screening
  - backflow prevention device, 123
  - outer openings protected, 144
  - tank vent, 128
  - vending machines, 91-92
  - water conditioning device, 124-125
- Seafood. *See Fish*
- Sealed, definition, 15
- Seeing Eye dog. *See Service animal*
- Self-draining warewashing sinks and drainboards, 90
- Self-service
  - clean tableware for refills, 51
  - consumer, protection from contamination, 54
  - handling of single-service and single-use articles, 117
  - utensil availability, 95
- Sentry dogs. *See Patrol dogs*
- Service animal
  - care and handling, 34
  - definition, 15
  - handwashing after handling, 30
  - presence in dining and sales area, 154
- Service sinks
  - availability, 149
  - plumbing system, numbers and capacity, 124
  - use limitation, 30
- Servicing area
  - definition, 15
  - outdoor, overhead protection, 145
- Serving dishes. *See Hollowware*
- Sewage
  - definition, 15
  - disposal, conveying, 132
  - disposal system, approved, design and construction, 132
  - holding tank, mobile, 131
- Sewage, other liquid wastes, and rainwater
  - backflow prevention, 131
  - conveying, 132
  - disposal facility, 132
  - drainage, 132
  - establishment drainage system, design and installation, 131
  - mobile holding tank, 131
  - removal from mobile food establishments, 132
  - retention, 132
- Shatterproof bulbs. *See Light bulbs, protective shielding*
- Shellfish, molluscan. *See Molluscan shellfish*
- Shellfish control authority, definition, 15

# INDEX

- Shells, use limitation, 104
- Shellstock
  - definition, 15
  - maintaining identification, 44
- Shielding, light, 142-143
- Shigella** spp.
  - cause of employee illness and disease outbreak, 23-28
  - employee illness, reporting, 23-25
  - infection, conditions of employee restriction or exclusion, 25-26
  - reporting responsibility of person in charge, 28-29
- Shigella** spp.-free employee, removal of restriction or exclusion, 26-28, 183-184
- Shigella** spp.-positive specimen culture, 25-26, 184
- Shucked shellfish, definition, 15
- Shutoff device, vending machine,
  - water or liquid food, 91
- Single-service and single-use articles
  - construction materials, characteristics, 80-81
  - definition, 16
  - handling, 117
  - prohibitions, 116
  - required use, 103
  - reuse limitation, 104
  - storage after cleaning, 115-116
- Sink compartment requirements, manual
  - warewashing, 93-94
- Sink, handwashing. *See Handwashing facilities*
- Sinks, warewashing
  - cleaning agents, 100
  - self-draining, 90
  - use limitations, 99
- Slacking
  - definition, 16
  - potentially hazardous frozen food, conditions, 61
- Slash-resistant gloves, 51
- Sleeping quarters. *See Living/sleeping quarters*
- Smoking. *See Tobacco use by employees*
- Smooth, definition, 16
- Sneeze guards. *See Food display*
- Sneezing, coughing, or runny nose by employees,
  - food contamination prevention, 33
- Soap. *See Cleaning agents*
- Soiled tableware, handling, 117
- Solder, use limitation for food-contact surfaces, 79
- Source, approved
  - drinking water, 119
  - food, 36-39
  - shellfish, 35, 39-42
- Spacing
  - carpet installation, 141
  - equipment installation, 97
  - toxic material separation, 156, 161
- Spatulas, use to avoid contaminating food, 45
- Specifications. *See Plans*
- Specimen analysis, employee transmission
  - of foodborne disease, 182
- Specimen cultures of employee infected with
  - Salmonella Typhi**, 183-184
- Sponges, use limitation, 79
- Spoons. *See Tableware*
- Spot cleaning. *See Floors, dustless cleaning methods*
- Sprouts, seed. *See potentially hazardous food definition*
- Stainless steel. *See Cleanability; Easily cleanable*
- Standards of identity, 72. *See also juice definition*
- Standards
  - Food Code, 1
- Steak tartare, consumer advisory, 74 (Reserved)
- Steam
  - cleaning equipment, 135
  - mixing valves, 123
  - tables, temperature measurement, 88
  - ventilation, 148
- Stitch pumping. *See Injected*
- Stirrers. *See Single-service articles*
- Stock and retail sale of poisonous or toxic materials
  - and personal care items, storage and display, 161
- Storage
  - clean equipment, utensils, linens, and single-service and single-use articles, 115-116
  - first aid supplies in food establishments, 160
  - food in contact with water or ice, 49
  - maintenance equipment, 153
  - medicines in food establishments, 160
  - methods for soiled linens, 113
  - poisonous or toxic materials, separation, 156
  - refuse, recyclables, and returnables, operation and maintenance, 135
- Storage and display of items for stock and retail sale,
  - separation, 161
- Storage areas for refuse, recyclables, and returnables
  - capacity and availability, 134-135
  - designated, 150
  - location, 135
- Storage cabinets, location for contamination
  - prevention, 96
- Storing food to prevent cross contamination, 46-47
- Straws. *See Single-service articles*
- Street foods. *See Food establishment, definition, mobile*
- Studs, joists, and rafters, cleanability, 142
- Stuffing, cooking, 56
- Sulfites. *See Additives*
- Summary permit suspension
  - disease intervention measure, 182-183
- Supervision of personnel
  - demonstration of knowledge, 19-21, 177
  - person in charge, 19, 21-23
- Surface characteristics
  - indoor areas, 139-140
  - outdoor areas, 140, 145
- Suspension.
  - See Summary permit suspension*
- Sweeping compounds. *See Floors, dustless cleaning methods*

# INDEX

- Table-mounted equipment
  - definition, 16
  - elevation, 97-98
- Tablecloths. *See Linens*
- Tableware
  - clean, consumer use in self-service area, supervisor responsibility, 23
  - definition, 16
  - handling, 117
  - preset, handling, 117
  - soiled and clean, handling, 117
  - See also Single-service articles*
- Tag/label, for molluscan shellstock
  - record keeping, 44
  - requirements, 42-45
- Take-home food containers, refilling, limitations, 52
- Temperature - Food
  - cold and hot food holding, 63-64
  - cooking, 55-58
  - cooling, 62
  - plant food, 59
  - recovery, 40
  - reheating, 59-60
  - roast beef and corned beef, 56-57
  - seared steak, 57
  - thawing, 61
- Temperature - Warewashing
  - wash water, manual, 100
  - wash water, mechanical, 100
  - sanitization, manual, 101
  - sanitization, mechanical, 101-102
- Temperature measuring devices
  - accuracy, 83
  - calibration, 103
  - definition, 16
  - design and construction, 81, 83-84
  - food, provided and accessible, 95
  - food storage unit air, 84, 88
  - manual warewashing, accessibility, 95
  - scale, 83-84
  - warewashing machines, 89
- Tempered water, handwashing lavatory, 123
- Temporary facility, water availability, 122
- Temporary food establishment
  - application for permit, 169-172
  - construction materials, 140
  - definition, 16
- Testing kit for sanitizing solutions, availability, 95
- Thawing potentially hazardous frozen food,
  - conditions, 61-62
- Thermistor, thermocouple, thermometer.
  - See Temperature measuring device*
- Threads, "V"-type, 82
- Three compartment sink. *See Sink compartment requirements*
- Time as public health control for potentially hazardous food, 68-69
- Time frame
  - correction of critical violation, 181
  - noncritical violation, 181
- Tobacco use by employees, food contamination prevention, 33
- Tofu, immersion in ice or water, 49
- Toilet rooms
  - convenience and accessibility, 149
  - doors, closing, 152
  - enclosed, design and installation, 143-144
  - numbers, 124, 147
  - receptacle for sanitary napkins, 134
- Toilet tissue, availability, 147
- Toiletries. *See Personal care items*
- Toilets and urinals, number, 124, 147
- Tongs, use to avoid contaminating food, 45
- Toothpaste. *See Personal care items*
- Toothpicks. *See Single-service articles*
- Towelettes, chemically treated, for handwashing, conditions, 124
- Towels
  - availability, 147
  - disposable, waste receptacle, 147
- Toxic. *See Poisonous or toxic materials*
- Tracking powder. *See Pesticides in food establishments*
- Trade secrets
  - protection, 169
- Training plan, food safety, for employees and supervisors, HACCP plan, 168
- Training of employees, 23, 71, 76, 168
- Transport
  - case lot moving, 91
  - conveyance of people, 7
  - game animals, 38-39
  - insulated containers, 88
  - refuse vehicles, 137
  - sewage vehicles, 132
  - soiled linens, 113
  - transportation vehicle, 7, 15
  - water vehicles, 121
- Trash. *See Refuse*
- Tumblers. *See Hollowware*
- Tuna, 59
- Turtle. *See Fish*
- Two compartment sink. *See Sink compartment requirements*
- Unnecessary
  - items, 136, 151, 153
  - ledges, projections and crevices, 83
  - persons, 22
- Urinals, numbers, 124
- Utensils
  - air-drying, 114-115
  - cast iron, use limitation, 78
  - ceramic, china, crystal, and decorative, lead limitation, 78
  - cleaning criteria, 104
  - cleaning frequency, 104-108
  - consumer self-service, availability, 95
  - contact with food, 49
  - definition, 17



# INDEX

- design and construction, durability and strength, 81
- galvanized metal, use limitation, 79
- in-use storage, 49-50
- maintenance and operation, 103-104
- multiuse, construction materials, 77-80
- racks, capacity, 94
- sanitization, 111-112
- serving, for consumer self-service operations, 54
- storage after cleaning, 115-116
- storage between use, 49-50
- wet cleaning methods, 108-109
- Utility lines, cleanability, 141
- "V" threads, use limitation for food-contact surfaces, 82
- Vacuum packaging. *See Reduced oxygen packaging*
- Variance
  - cooking raw animal foods, 58
  - conformance with approved procedures, 165
  - definition, 17
  - documentation and justification, 165
  - HACCP plan, 165, 167-168
  - modifications and waivers, Code application, 164
  - molluscan shellfish tanks, 87
  - rationale, 165
  - requirement for specialized food processing methods, 69
  - shellstock, maintaining identification, 44
- Vegetables, raw
  - cooking for hot holding, 59
  - washing, 48
  - whole or cut, immersion in ice or water, 49
  - whole, uncut, raw, storage, 47
  - See also Sprouts; potentially hazardous food definition*
- Vehicles for removal of refuse, recyclables, and returnables, 137
- Vending machines
  - automatic shutoff, 87-88
  - can openers, design and construction, 87
  - condiments, packaging to prevent contamination, 53-54
  - definition, 17
  - design and construction of vending stage closure, 86
  - doors and openings, design and construction, 91-92
  - liquid waste products, 91
  - location, definition, 17
  - potentially hazardous food, original container, 53
  - refuse receptacles in, 134
  - temperature, 88
- Ventilation, mechanical, 148
- Ventilation systems
  - capacity, 148
  - cleaning, nuisance and discharge prohibition, 151
  - exhaust vents, design and installation, 143
  - hood, adequacy, 94
  - drip prevention, design and construction, 84
  - Verification of correction of critical violation, 181
  - Vermin. *See Insect control; Pest control; Rodent control*
  - Violations, critical
    - documentation and verification of correction, 181
    - documentation of findings, 178
    - history of, role in frequency of inspections, 176
    - inspection and correction, 175-181
    - noncritical, time frame for correction, 181
    - timely correction, 181
  - Virus. *See Disease outbreaks caused by*
  - Vomiting, employee symptom, 24
  - Waivers. *See also Modifications; Variance*
    - Code requirements, 164
    - conformance with approved procedures, 165
  - Walk-in refrigerator, carpeting prohibition, 141
  - Walking surfaces. *See Surface characteristics*
  - Wall and ceiling coverings and coatings, cleanability, 142
  - Walls, exterior, protective barrier, 145
  - Warewashing
    - definition, 17
    - manual, sink compartment requirements, 93-94
    - manual, temperature measuring devices, accessibility, 95
  - Warewashing equipment
    - chemical sanitizer concentration, determining, 103
    - clean solutions, 100
    - manual
      - alternative, 109
      - chemical sanitization, 101-103
      - detergent-sanitizers for chemical sanitization, 103
      - cleaning agents, 100
      - heaters and baskets, 90
      - hot water sanitization temperatures, 101
      - wash solution temperature, 100
    - mechanical
      - chemical sanitization, 101-103
      - hot water sanitization temperatures, 101
      - sanitization pressure, 101
      - wash solution temperature, 100
  - Warewashing machines
    - data plate operating specifications, 89
    - drain connection, 131
    - flow pressure valve, 90
    - internal baffles, 89
    - loading of soiled items, 108
    - manufacturers' operating instructions, 99
    - sanitizer level indicator, 90
    - temperature measuring devices, 88

# INDEX

- Warewashing sinks
  - alternative use limitation, 99
  - and drainboards, self-draining, 91
- Wash solution temperature, warewashing equipment, 100
- Washers/dryers, clothes, availability, 95
- Washing
  - mechanical methods, linens, 114
  - methods, equipment, and utensils, 108-109
  - raw fruits and vegetables, 48
  - times for employees, 30
- Waste
  - liquid. *See Sewage*
  - solid. *See Refuse*
- Waste receptacle for disposable towels, 147
- Waste retention tank, flushing, 132
- Water
  - alternative supply, 122
  - distribution, delivery, and retention, 121
  - hot, quantity and availability, 121
  - inlet/outlet, protective device, 129
  - nondrinking, 120
  - pressure, 121
  - quality, 120
    - sample report, 121
    - sampling, 120
    - standards, 120
  - quantity and availability, 121
  - source
    - approved system, 119
    - bottled drinking, 120
    - capacity, 121
    - disinfection, 120
    - knowledge by person in charge, 21
    - system flushing, 120
  - storage or display of food in contact with, 49
- Water activity, definition, 3
- Water conditioning device, 124
- Water reservoir of fogging devices, cleaning, 126
- Water supply
  - alternative supply, 122
  - system, prohibition of cross connection, 126
- Water system, compressed air filter, 129
- Water system device, inspection and service, 126
- Water systems, public and nonpublic, 119
- Water tank
  - hose, construction and identification, 129
  - inlet/outlet
    - and hose fitting, protection, 130
    - sloped to drain, 128
    - use limitation of "V" type threads, 128
  - pump, and hoses, dedicated use, 130
  - vent, protected, 128
- Watertight joint, equipment openings, 85
- Water treatment device, 126
- Wet cleaning methods, equipment and utensils, 108-109
- Wet storage. *See Storage, food in contact with water and ice; Molluscan shellfish, tanks*
- Wetting agents, 109
- Whole-muscle, intact beef
  - definition, 17
  - consumer advisory exemption, 58
  - cooking, 57
  - labeling, 36-37, 57
- Windows, tight-fitting, 144
- Wiping cloths
  - air-drying locations, 115
  - laundering, 113-114
  - stored in sanitizer, 50
  - use for one purpose, 50
- Wood, use limitation for food-contact surfaces, 79-80
- Work clothes. *See Clothing, outer*
- Wound, infected. *See Lesion, containing pus*
- Wrapped food
  - honestly presented, 72
  - preventing contamination, 46
  - See also packaged, definition*
- Wrapped tableware, handling, 117